

ASSIGNMENT

Date:19-6-2025

Topic : Scopes

Task:

Prepare a document on Scopes with an examples

```
#-----  
# Scopes  
# scopes are nothing but a specific area where i can access my specific  
variables and specific functions  
# Local scope or function block or local block or function block scope  
(pecific are where i can access)  
def details():  
    name ="shiva"  
    age = 22  
    role = "developer"  
    print(name)  
    print(age)  
    print(role)  
details()  
# output:  
# shiva  
# 22  
# developer  
# name,age , role these can only be accessed inside that details() function  
scope but not Outside the function block  
#-----  
-----  
#Global scope variable access every where  
a = 10  
b = 20  
c = 50  
def details(): # local scope  
    print(a)  
    print(b)  
    print(c)  
    name ="shiva"  
    age = 22  
    role = "developer"  
    print(name)  
    print(age)  
    print(role)
```

```

details()
#output:
# 10
# 20
# 50
# shiva
# 22
# developer
#-----
# Nested functions scopes with global variables can be accessed any
where
# but the command checks the variables are present inside the block or
not if not it takes the value of the global scope variables
name="shiva"
age = 22
role = "developer"
def Parent(): # local scope
    def child(): # sub local scope
        name="ravi"
        age = 32
        role = "student"
        print(name)
        print(age)
        print(role)
    child()
Parent()
#output:
# ravi
# 32
# student
#-----
# assessing inner most local scope variables to the outer most (global
scope ) with rerturn
def parent():
    def child():
        name = "ravi"
        age = 33
        return name,age
    xyz = child()
    return xyz
abc= parent()
print(abc)
#output : ('ravi', 33)

```

